



The Effect of Ion-Neutral Collisions on the Plasma Interaction at Titan

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Our final results on the effects of ion-neutral collisions on ion energy deposit on Titan's upper atmosphere. By implementing charge exchange processes for both protons and oxygen ions for energies also below 10 keV as well as ion drag effects on ions, we have been able to model the behavior of Titan's plasma environment in realistic conditions also in terms of ion-neutral collisions. The model used is the HYB-Titan hybrid plasma simulation model.